

Bi Xu

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,323
citations

566801

15
h-index

476904

29
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33
all docs

33
docs citations

33
times ranked

1460
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication of a superhydrophobic ZnO nanorod array film on cotton fabrics via a wet chemical route and hydrophobic modification. <i>Applied Surface Science</i> , 2008, 254, 5899-5904.	3.1	276
2	Bifunctional Fabric with Photothermal Effect and Photocatalysis for Highly Efficient Clean Water Generation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 10789-10797.	3.2	129
3	Preparation of superhydrophobic cotton fabrics based on SiO ₂ nanoparticles and ZnO nanorod arrays with subsequent hydrophobic modification. <i>Surface and Coatings Technology</i> , 2010, 204, 1556-1561.	2.2	116
4	Efficient solar water vapor generation enabled by water-absorbing polypyrrole coated cotton fabric with enhanced heat localization. <i>Applied Thermal Engineering</i> , 2018, 141, 406-412.	3.0	109
5	Self-cleaning cotton fabrics via combination of photocatalytic TiO ₂ and superhydrophobic SiO ₂ . <i>Surface and Coatings Technology</i> , 2015, 262, 70-76.	2.2	106
6	Fabrication of superhydrophobic cotton fabrics by silica hydrosol and hydrophobization. <i>Applied Surface Science</i> , 2011, 257, 5491-5498.	3.1	80
7	Polypyrrole coated knitted fabric for robust wearable sensor and heater. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 9218-9226.	1.1	61
8	An all-day solar-driven vapor generator <i>via</i> photothermal and Joule-heating effects. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25178-25186.	5.2	50
9	Preparation of Passive Daytime Cooling Fabric with the Synergistic Effect of Radiative Cooling and Evaporative Cooling. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	49
10	Superamphiphobic cotton fabrics with enhanced stability. <i>Applied Surface Science</i> , 2015, 356, 951-957.	3.1	42
11	An improved method for preparing monolithic aerogels based on methyltrimethoxysilane at ambient pressure Part I: Process development and macrostructures of the aerogels. <i>Microporous and Mesoporous Materials</i> , 2012, 148, 145-151.	2.2	37
12	A flowerlike sponge coated with carbon black nanoparticles for enhanced solar vapor generation. <i>Journal of Materials Science</i> , 2020, 55, 298-308.	1.7	37
13	An improved method for preparing monolithic aerogels based on methyltrimethoxysilane at ambient pressure Part II: Microstructure and performance of the aerogels. <i>Microporous and Mesoporous Materials</i> , 2012, 148, 152-158.	2.2	34
14	Triangular manufacture and UV blocking property of ZnO nanorods on cotton fabrics. <i>Journal of Applied Polymer Science</i> , 2008, 108, 3781-3786.	1.3	27
15	Low-Cost and High-Efficiency Solar-Driven Vapor Generation Using a 3D Dyed Cotton Towel. <i>Global Challenges</i> , 2019, 3, 1900004.	1.8	24
16	A multifunctional antifog, antifrost, and self-cleaning zwitterionic polymer coating based on poly(SBMA-co-AA). <i>Journal of Coatings Technology Research</i> , 2020, 17, 765-776.	1.2	17
17	Solar-Driven All-in-One Interfacial Water Evaporator Based on Electrostatic Flocking. <i>Advanced Sustainable Systems</i> , 2021, 5, .	2.7	16
18	Asymmetric wetting Janus fabrics with double-woven structure for oil/water separation. <i>Journal of Materials Science</i> , 2019, 54, 5942-5951.	1.7	15

#	ARTICLE	IF	CITATIONS
19	Fabrication of Hydrophobic Multilayered Fabric for Passive Daytime Radiative Cooling. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	1.7	13
20	Superabsorbent Fabric Based on Weft-Back Weave Structure for Efficient Evaporative Cooling. <i>Advanced Materials Interfaces</i> , 2021, 8, .	1.9	12
21	Design and preparation of flexible double-layered daytime radiative cooling composite film with antifouling property. <i>Solar Energy Materials and Solar Cells</i> , 2022, 245, 111836.	3.0	11
22	Study on chemical modification and dyeing properties of jute fiber. <i>Journal of the Textile Institute</i> , 2010, 101, 613-620.	1.0	10
23	Superhydrophobic cotton fabrics prepared by one-step water-based sol-gel coating. <i>Journal of the Textile Institute</i> , 0, , 1-9.	1.0	8
24	Skin inspired thermoresponsive polymer for constructing self-cooling system. <i>Energy Conversion and Management</i> , 2022, 254, 115251.	4.4	8
25	Integrated Multi-Layered Fabric with Tunable Water Supply to the Photothermal Conversion Layer for an Efficient Solar Water Evaporation. <i>ACS ES&T Water</i> , 2022, 2, 873-882.	2.3	8
26	Complete System to Generate Clean Water from a Contaminated Water Body by a Handmade Flower-like Light Absorber. <i>ACS Omega</i> , 2021, 6, 35104-35111.	1.6	8
27	Robust Superhydrophobic and Photocatalytic Cotton Fabrics Based on $\text{TiO}_2/\text{SiO}_2/\text{PDMS}$ Composite Coating &sup>. <i>Key Engineering Materials</i> , 0, 671, 225-230.	0.4	5
28	Chemically and Physically Modified Flame-Retardant Silicone-Acrylic Emulsion Adhesive for Electrostatic Flocking. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 4342-4349.	1.9	5
29	Tri-Layer Laminated Fabric-Induced Sweating Surfaces for Passive Cooling. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2000696.	1.7	4
30	One-Step Processing to Fabricate Highly Transparent Superhydrophobic Surface via Granuliform Silica Aerogels. <i>Advanced Materials Research</i> , 0, 936, 1042-1046.	0.3	3
31	Design and preparation of mixed special wettability fabrics based on backed weave for separation of light oil/water/heavy oil mixtures. <i>Journal of Industrial Textiles</i> , 2022, 51, 1312-1329.	1.1	2
32	A Practical Approach for Producing Hydrophobic and Elastic Aerogels by Ambient Pressure Drying. <i>Advanced Materials Research</i> , 0, 343-344, 205-211.	0.3	0